SURVIVABILITY CRITERIA FOR THE MDMP (M109A6)

SURVIVABILITY CRITERIA

How to Compute? A Method.

Definition:

<u>Survivability Criteria</u> - Those factors, both enemy and friendly, that when combined give Battalion and Battery Commander's guidance with regard to maintaining firing capability and conducting survivability moves during sustained combat operations. This criteria should be adjusted with each phase of the operation based on changing enemy threat, movement guidance, friendly artillery system, and enemy degradation. Normally expressed as Time From 1st Round Fired / Number of Volleys / Time in Position (Minutes).

Examples Only - Not Doctrine

Example: 10 / 20 / 60

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Definitions/Factors:

<u>Enemy Target Acquisition Threat</u> –

The enemy's ability to bring effective and timely indirect fires onto friendly artillery. Includes: Phase of Fire, Enemy Acquisition Assets (Radar, HUMINT). High, Medium, Low.

<u>Movement Guidance</u> –

Derived using the Scheme of Fires. When wargamed properly, gives the DS Bn S3 windows of opportunity to conduct survivability moves. It also indicates the times when firing batteries will be least likely able to conduct movement. Not Flexible, Flexible, Extremely Flexible.

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Definitions/Factors continued:

<u>Bluefor System</u> –

The Bluefor system employed and it's ability to survive during sustained combat operations. Shoot/Scoot, SP, TOWed

<u>OPFOR Degradation</u> –

An assessment of our ability to affect the OPFOR fires delivery system process. Accomplished either through attack of HPTs and/or OPFOR artillery. As the battle progresses, OPFOR artillery should decrease based on successful attack means. High - 75-100%, Medium - 50-74%, Low = <50%.

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Assessment Matrix

Enemy TA Ability	Movement Guidance	BLUEFOR System	OPFOR Degradation
High - 3	Not Flexible - 3	TOWed - 3	Low - 3
Med - 2	Flexible - 2	SP - 2	Med - 2
Low - 1	Extremely Flexible - 1	Shoot/Scoot - 1	High - 1

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Once the assessment is made utilizing the matrix, the S3 is able to apply factors and determine survivability criteria.

Assessment Definitions:

High (10-12) Criteria: ≡10 / ≤15 / ≤15.

Medium (7-9) Criteria: 10-15 / 16-25 / 16-30.

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Low (3-6) Criteria: >15 / >25 / >30.

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Assessment Matrix

Enemy CF Threat	Movemnt Guidance	BLUEFOR System	OPFOR Degradation
High - 3	Not Flexible - 3	TOWed - 3	Low - 3
Med - 2	Flexible - 2	SP - 2	Med - 2
Low - 1	Extremely Flexible - 1	Shoot/Scoot - 1	High - 1

Assessment Friendly Maneuver Phase II = 7 (Medium)

Friendly Maneuver Phase II Surv Criteria
11 / 18 / 25

Examples Only - Not Doctrine

ARTILLERY FORCE RATIOS

US SYSTEMS	RATIO	THREAT SYSTEMS	RATIO
M119	0.55	D30	0.60
M198	1.05	2S1	0.80
M109A3	1.15	M46	0.70
M109A5	1.25	D20	0.75
M110A2	1.30	2S3	1.10
M109A6	1.50	2S19	1.25
		2A65	0.80
		2S5	1.20
		2A36	1.00
		2S7	1.40
		2S4	0.70
		2S9	0.66
MLRS BTRY	1.10	BM-21 BN	2.20
MLRS BN	3.30	BM-22 BN	2.90
		9A52 BN	3.50